

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: HADLACZKY *et al.*
Serial No. 09/724,726
Filed: November 28, 2000
For: *ARTIFICIAL CHROMOSOMES,
USES THEREOF AND METHODS
FOR PREPARING ARTIFICIAL
CHROMOSOMES*
Art Unit: Unassigned
Examiner: Unassigned

TRANSMITTAL LETTER

Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith, via hand delivery, are an Information Disclosure Statement, Forms PTO-1449 (28 pages), cited references and a Change of Address Form for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a first office action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

[X] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

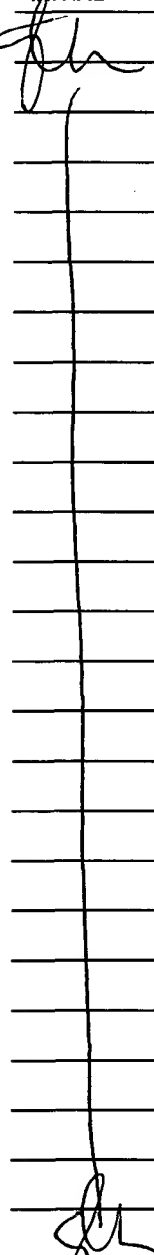
Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

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Dated: May 14, 2001
Attorney Docket No. 24601-402E
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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 24601-402E	SERIAL NO. 09/724,726
	APPLICANT Hadlaczky, <i>et al.</i>	
	FILING DATE November 28, 2000	GROUP Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	4	4	4	1	9	7	2	4/10/84	Pohl,	204	180	4/8/83
	B	4	4	7	6	0	0	4	10/09/84	Pohl,	204	299	10/26/83
	C	4	5	1	8	5	8	4	5/21/85	Mark <i>et al.</i>	424	85	12/20/83
	D	4	6	0	8	3	3	9	8/26/86	Yoakum <i>et al.</i>	435	172.2	10/25/83
	E	4	6	8	4	6	1	1	8/4/87	Schilperoort <i>et al.</i>	435	172.3	7/29/85
	F	4	6	8	6	1	8	6	8/11/87	Sugden	435	243	9/26/84
	G	4	7	8	4	7	3	7	11/15/88	Ray <i>et al.</i>	204	180.1	4/18/86
	H	4	8	0	6	4	7	6	2/21/89	Coons <i>et al.</i>	435	172.2	8/13/85
	I	4	8	7	3	1	9	1	10/10/89	Wagner <i>et al.</i>	435	172.3	8/18/86
	J	4	8	7	3	3	1	6	10/10/89	Meade, <i>et al.</i>	530	412	6/23/87
	K	4	9	0	6	5	7	6	3/06/90	Marshall, III	435	287	5/8/87
	L	4	9	2	3	8	1	4	5/8/90	Marshall, III	435	173	4/26/89
	M	4	9	3	5	3	5	0	6/19/90	Patel <i>et al.</i>	435	69.4	11/18/85
	N	4	9	4	6	9	5	2	8/7/90	Kiefer	536	27	4/1/88
	O	4	9	5	5	3	7	8	9/11/90	Grasso	128	421	1/17/89
	P	4	9	7	0	1	6	2	11/13/90	Aksamit	435	240.26	11/13/85
	Q	4	9	9	7	7	6	4	3/5/91	Dalla Favera	435	240.27	4/23/87
	R	5	0	1	9	0	3	4	5/28/91	Weaver <i>et al.</i>	604	20	3/20/89
	S	5	0	2	1	3	4	4	6/4/91	Armau <i>et al.</i>	435	172.3	8/30/85
	T	5	0	6	3	1	6	2	11/5/91	Kiefer	435	270	5/9/90
	U	5	1	1	8	6	2	0	6/2/92	Armau <i>et al.</i>	435	172.3	3/1/91
	V	5	1	4	4	0	1	9	9/1/92	Rossi <i>et al.</i>	536	27	6/21/89
	W	5	1	4	9	7	9	6	9/22/92	Rossi <i>et al.</i>	536	27	4/30/91
	X	5	1	6	2	2	1	5	11/10/92	Bosselman <i>et al.</i>	435	172.3	9/22/88
	Y	5	2	1	5	9	1	4	6/1/93	Lo <i>et al.</i>	435	253.1	12/2/91

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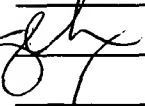
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LIST OF PATENTS AND PUBLICATIONS FOR
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STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	Z	5	2	2	3	2	6	3	6/29/93	Hostetler <i>et al.</i>	424	4450	6/28/89
	AA	5	2	4	0	8	4	0	8/31/93	Feinberg <i>et al.</i>	435	172.3	4/5/91
	AB	5	2	4	0	8	4	6	8/31/93	Collins <i>et al.</i>	435	240.1	9/18/90
	AC	5	2	6	0	1	9	1	11/9/93	Yang	435	6	1/30/92
	AD	5	2	6	6	6	0	0	11/30/93	Tenmyo <i>et al.</i>	514	691	10/30/92
	AE	5	2	7	2	2	6	2	12/21/93	Rossi <i>et al.</i>	536	23.2	10/19/90
	AF	5	2	8	8	6	2	5	2/22/94	Hadlaczky	435	172.2	9/13/91
	AG	5	2	9	2	6	5	8	3/8/94	Cormier <i>et al.</i>	435	252.33	6/17/93
	AH	5	2	9	8	4	2	9	3/29/94	Evans <i>et al.</i>	436	501	12/10/91
	AI	5	3	0	0	4	3	1	4/5/94	Pierce <i>et al.</i>	435	172.3	2/26/91
	AJ	5	3	2	4	6	5	5	6/28/94	Kriegler <i>et al.</i>	435	240.2	2/18/92
	AK	5	3	5	4	6	7	4	10/11/94	Hodgson	435	172.3	10/29/92
	AL	5	3	5	8	8	6	6	10/25/94	Mullen <i>et al.</i>	435	240.2	7/3/91
	AM	5	3	6	4	7	6	1	11/15/94	Ariga	435	6	11/5/92
**	AN	5	3	8	7	7	4	2	02/07/95	Cordell	800	2	06/17/91
	AO	5	3	9	6	7	6	7	3/14/95	Suzuki	60	298	2/8/93
	AP	5	4	0	9	8	1	0	4/25/95	Larder <i>et al.</i>	435	5	12/1/92
	AQ	5	4	1	3	9	1	4	5/9/95	Franzusoff	435	23	7/7/93
	AR	5	4	1	8	1	5	5	5/23/95	Cormier <i>et al.</i>	435	189	12/14/93
	AS	5	4	2	4	4	0	9	6/13/95	Ely <i>et al.</i>	536	23.71	9/29/89
	AT	5	4	3	4	0	8	6	7/18/95	Collins <i>et al.</i>	436	125	12/9/93
**	AU	5	4	3	4	3	4	0	07/18/95	Krimpenfort <i>et al.</i>	800	2	07/27/92
	AV	5	4	3	6	3	9	2	7/25/95	Thomas <i>et al.</i>	800	205	12/21/92
	AW	5	4	4	9	6	0	4	9/12/95	Schellenberg <i>et al.</i>	435	6	10/21/92
	AX	5	4	5	3	3	5	7	9/26/95	Hogan	435	7.21	10/8/92

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gh	AY	5	4	5	7	1	8	2	10/10/95	Weiderrecht <i>et al.</i>	530	402	2/15/94
	AZ	5	4	6	1	0	3	2	10/24/95	Krapcho <i>et al.</i>	514	12	3/18/94
	BA	5	4	6	8	6	1	5	11/21/95	Chio <i>et al.</i>	435	7.2	7/1/93
	BB	5	4	6	8	6	3	4	11/21/95	Liu	435	240.2	1/13/95
	BC	5	4	7	0	7	0	8	11/28/95	Yang <i>et al.</i>	435	6	4/2/93
	BD	5	4	7	0	7	3	0	11/28/95	Greenberg <i>et al.</i>	435	172.3	8/8/94
	BE	5	4	8	2	9	2	8	1/9/96	De Bolle <i>et al.</i>	514	12	3/10/92
	BF	5	4	8	9	5	2	0	2/6/96	Adams <i>et al.</i>	435	172.3	4/26/94
	BG	5	4	9	1	0	7	5	2/13/96	Desnick <i>et al.</i>	435	69.7	6/17/94
**	BH	5	4	9	1	2	8	3	02/13/96	Groffen <i>et al.</i>	800	2	01/14/93
	BI	5	4	9	6	7	3	1	3/5/96	Xu <i>et al.</i>	435	320.1	3/25/93
	BJ	5	5	0	1	6	6	2	3/26/96	Hofmann	604	20	9/12/94
	BK	5	5	0	1	9	6	7	3/26/96	Offringa <i>et al.</i>	435	172.3	7/6/93
	BL	5	5	0	3	9	9	9	4/2/96	Jilka <i>et al.</i>	435	172.3	1/3/95
	BM	5	5	4	3	3	1	9	08/06/96	Fournier <i>et al.</i>	415	354	03/31/95
**	BN	5	7	1	2	1	3	4	01/27/98	Hadlaczky	435	465	1/19/95
	BO	5	7	2	1	1	1	8	02/24/98	Scheffler	435	69.1	10/29/96
**	BP	5	8	9	1	6	9	1	04/06/99	Hadlaczky	435	465	10/21/96
	BQ	6	0	2	5	1	5	5	02/15/00	Hadlaczky <i>et al.</i>	435	69.1	08/07/96
	BR	6	0	7	7	6	9	7	06/20/00	Hadlaczky <i>et al.</i>	435	6	07/15/96
**	BS	6	1	3	3	5	0	3	10/17/00	Scheffler	800	21	02/17/98

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation	
													Yes	No
	BT	0	2	4	0	3	7	3	10/7/87	EP	--	--	X	
	BU	0	2	5	4	3	1	5	1/27/88	EP A2	--	--		
	BV	0	2	5	4	3	1	5	1/17/88	EP A3	--	--		
	BW	0	2	5	4	3	1	5	1/27/88	EP B1	--	--		
	BX	0	3	5	0	0	5	2	1/10/90	EP	A01K 67	02		
	BY	0	3	7	5	4	0	6	6/27/90	EP A2	--	--		
	BZ	0	3	7	5	4	0	6	6/27/90	EP	A01K 67	027		
	CA	0	4	7	3	2	5	3	3/4/92	EP	C12N 15	85		
	CB	0	5	3	2	0	5	0	9/14/92	EP A2	--	--		
	CC	9	1	0	0	3	5	8	1/10/91	PCT	C12N 15	87		
	CD	9	2	1	4	8	1	9	9/3/92	PCT	--	--		
	CE	9	2	1	7	5	8	2	10/15/92	PCT	--	--		
**	CF	9	3	2	5	5	6	7	12/23/93	PCT	--	--		
	CG	9	4	1	9	4	5	6	9/1/94	PCT	C12N 5	0.00		
	CH	9	4	2	3	0	4	9	10/13/94	PCT	--	--		
	CI	9	4	2	4	3	0	0	10/27/94	PCT	--	--		X
	CJ	9	5	0	0	1	7	8	1/5/95	PCT	A61K 48	0.00		
	CK	9	5	0	7	6	4	3	3/23/95	PCT	A47C 7	20		
	CL	9	5	1	4	7	6	9	6/1/95	PCT	C12N 5	00		
	CM	9	5	2	0	0	4	4	7/27/95	PCT	C12N	15		
	CN	9	5	2	9	9	9	2	11/9/95	PCT	--	--		
	CO	9	5	3	2	2	9	7	11/30/95	PCT	--	--		
	CP	9	6	4	0	9	6	5	12/19/96	PCT	--	--		
	CQ	9	7	0	7	6	6	8	03/06/97	PCT	--	--		
	CR	9	7	0	7	6	6	9	03/06/97	PCT	--	--		

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FOREIGN PATENT DOCUMENTS

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<i>fl</i>	CS	9	7	1	6	5	3	3	05/09/97	PCT	--	--		
<i>** fl</i>	CT	9	7	4	0	1	8	3	10/30/97	PCT	--	--		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>fl</i>	CU	"Guide to Techniques in Mouse Development", <i>Methods in Enzymology</i> 25:803-932, (1993).
	CV	"Transfection of DNA into eukaryotic cells", <i>Current Protocols in Molecular Biology</i> , Vol. 1, Wiley Inter-Science, Supplement 14, Unit 9.1.1-9.1.9, (1990).
	CW	"Why are MACs in vogue", <i>Chromos Molecular Systems - News Release</i> (May 29, 1996), (available at http://www.chromos.com/contents.html)
	CX	Albrecht, <i>et al.</i> , "Cationic lipid mediated tranfer of c-abl and bcr antisense oligonucleotides to immature normal myeloid cells: Uptake, biological effects and modulation of gene expression*", <i>Ann Hematol</i> 72:73-79, (1996).
	CY	Baker, <i>et al.</i> , "Suppression of human colorectal carcinoma cell growth by wild-type p53", <i>Science</i> 249:912-915, (1990).
	CZ	Barnett <i>et al.</i> , Telomere directed fragmentation of mammalian chromosomes, <i>Nucleic Acids Res.</i> 21 (1): 27-36 (1993)
	DA	Bartholdi, <i>et al.</i> , Chromosome sorting by flow cytometry, <i>Meth. Enzy.</i> , 151:253-267, 1987
	DB	Beck von Bodman, <i>et al.</i> , "Expression of multiple eukaryotic cells from a single promoter," in <i>Nicotina</i> , <i>Bio/Technology</i> 13:587-591, (1995).
	DC	Biggin, <i>et al.</i> , "Buffer gradient gels and ³⁵ S label as an aid to rapid DNA sequence determination", <i>Proc. Natl. Acad. Sci. USA</i> , 80:3963-3965, (1983).
	DD	Blackburn, <i>et al.</i> , "The molecular structure of centromeres and telomeres", <i>Ann. Rev. Biochem.</i> , 53:163-194, (1984).
<i>fl</i>	DE	Blattner, <i>et al.</i> , "Charon phages: Safer derivatives of bacteriophage lambda for DNA cloning", <i>Science</i> 196:16, (1977).

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df	DF	Blennow, <i>et al.</i> , Swedish survey on extra structurally abnormal chromosomes in 39 105 consecutive prenatal diagnoses: Prevalence and characterization by fluorescence <i>in situ</i> hybridization, <u>Prenatal Diagnosis</u> , 14:1019-1028, 1994
	DG	Blumenthal, <i>et al.</i> , Rapid isolation of metaphase chromosome containing high molecular weight DNA, <u>J. Cell Biol.</u> , 81:255-259, 1979
	DH	Bostock and Clark, "Satellite DNA in large marker chromosomes of methotrexate-resistant mouse cells", <u>Cell</u> 19: 709-715, (1980).
	DI	Bostock and Christie, "Analysis of the frequency of sister chromatid exchange in different regions of chromosomes of the Kangaroo rat," (<i>Dipodomys ordii</i>), <u>Chromosoma</u> 56: 275-287, (1976).
	DJ	Bower, "Constructing a fully defined human minichromosome: Cloning a centromere", <u>Proc. 4th Eur. Congress Biotechnol.</u> 3:571, (1987).
	DK	Brazolot, <i>et al.</i> , "Efficient transfection of chicken cells by lipofection and introduction of transfected blastoderm cells into the embryo", <u>Mol. Repro. Dev.</u> 30:304-312, (1993).
	DL	Brewer and Fangman, "The localization of replication origins on ARS plasmids", in <i>S. cerevisiae</i> , <u>Cell</u> 51:463-471, (1987).
**	DM	Brinster <i>et al.</i> , Factors affecting the efficiency of introducing foreign DNA into mice by microinjecting eggs, <u>Proc. Natl. Acad. Sci. USA</u> 82:4438-4442 (1985).
	DN	Brisson and Hohn, "[27] Plant virus vectors: Cauliflower mosaic vectors", <u>Methods for Plant Molecular Biology</u> , Weissbach <i>et al.</i> , eds., Academic Press, N.Y., Section VIII, pp. 437-446, (1988).
	DO	Brondum-Nielsen and Mikkelsen, A 10-year survey, 1980-1990, of prenatally diagnosed small supernumerary marker chromosomes, indentified by fish analysis. Outcome and follow-up of 14 cases diagnosed in a series of 12 699 prenatal samples, <u>Prenatal Diagnosis</u> , 15:615-619, 1995
**	DP	Brown <i>et al.</i> , Artificial chromosomes: ideal vectors? <u>TIBTECH</u> 18:218-223 (May, 2000).
	DQ	Brown <i>et al.</i> , Mammalian artificial chromosomes, <u>Current Opinion: Genetics and Devt.</u> 6: 281-288 (1996).
	DR	Brown, "Mammalian artificial chromosomes", <u>Curr. Opin. Genes Dev.</u> 2:479-486, (1992).
**	DS	Bühler <i>et al.</i> , Rabbit β -Casein Promoter Directs Secretion of Human Interleukin-2 into the Milk of Transgenic Rabbits, <u>Bio/Technology</u> 8:140-143 (1990).

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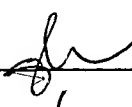

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	DT	Bullock and Botchan, "Molecular events in the excision of SV40 DNA from the chromosomes of cultured mammalian cells," In: <i>Gene Amplification</i> , Schimke RT, ed. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press, pp 215-224, (1982).
	DU	Burhans and Huberman, "DNA replication origins in animal cells - a question of context?" <i>Science</i> 263: 639-640, (1994).
	DV	Burhans <i>et al.</i> , "Identification of an origin of bidirectional DNA replication in mammalian chromosomes", <i>Cell</i> 62:955-965, (1990).
	DW	Burke, <i>et al.</i> , "Cloning of large segments of exogenous DNA into yeast by means of artificial chromosome vectors", <i>Science</i> , 236:806-812, (1987).
	DX	Burki, <i>et al.</i> , Zonal fractionation of mammalian metaphase chromosomes and determination of their DNA content, <i>Prep. Bioch.</i> , 3(2):157-182, 1973
**	DY	Calos, M.P., The Potential of Extrachromosomal Replicating Vectors for Gene Therapy, <i>TIG</i> 12(11):463-66 (1996).
	DZ	Carine, <i>et al.</i> , "Chinese hamster cells with a minichromosome containing centromere region of human chromosome 1", <i>Somatic Cell Molec. Genet.</i> 12:479-491, (1986).
	EA	Carine, <i>et al.</i> , "Molecular characterization of human minichromosomes with centromere from chromosome 1 in hamster-human hybrids", <i>Somatic Cell Molec. Genet.</i> 15(5):445-460, (1989).
	EB	Carrano and Wolff, "Distribution of sister chromatid exchanges in the euchromatin and heterochromatin of the Indian muntjac", <i>Chromosoma</i> 53:361-369, (1975).
	EC	Carrano, <i>et al.</i> , Measurement and purification of human chromosomes by flow cytometry and sorting, <i>Proc. Natl. Acad. Sci. USA</i> , 76(3):1382-1384, 1979
	ED	Carsience, <i>et al.</i> , "Germline chimeric chickens from dispersed donor blastodermal cells and compromised recipient embryos", <i>Develop</i> 117:669-675, (1993).
	EE	Chalfie, <i>et al.</i> , "Green fluorescent protein as a marker for gene expression", <i>Science</i> 263:802-804, (1994).
	EF	Chang, <i>et al.</i> , "Ribozyme-mediated site-specific cleavage of the HIV-1 genome", <i>Clin. Biotech.</i> 2:23-31, (1990).
✓	EG	Chen, <i>et al.</i> , "Genetic mechanism of tumor suppression by the human p53 gene", <i>Science</i> 250:1576, (1990).
	EH	Chen, <i>et al.</i> , "High-efficiency transformation of mammalian cells by plasmid DNA", <i>Mol. Cell. Biol.</i> 7:2745-2752, (1987).

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	APPLICANT Hadlaczky, <i>et al.</i>	
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[Signature]	EI	Chick, <i>et al.</i> , "Beta cell culture on synthetic capillaries: an artificial endocrine pancreas", Elliot P. Joslin Research Laboratory, Harvard Medical School, p. 847-849, (1975).
	EJ	Chikashige <i>et al.</i> , "Composite motifs and repeat symmetry in <i>S. pombe</i> centromeres: Direct analysis by integration of NotI restriction sites", <i>Cell</i> 57:739-751, (1989).
	EK	Chisari <i>et al.</i> , A transgenic mouse model of the chronic hepatitis B surface antigen carrier state, <i>Science</i> 230: 1157-1160 (1985).
**	EL	Choo, K.H.A., Turning on the centromere, <i>Nature Genetics</i> 18: 3-4 (1998).
	EM	Church, "Replication of chromatin in mouse mammary epithelial cells grown <i>in vitro</i> ," <i>Genetics</i> 52: 843-849, (1965).
	EN	Clarke, <i>et al.</i> , "The structure and function of yeast centromeres", <i>Ann. Rev. Genet.</i> 19:29-56, (1985).
	EO	Coffman, <i>et al.</i> , <i>In Vitro</i> replication of plasmids containing human ribosomal gene sequences: Origin localization and dependence on an aprotinin-binding cytosolic protein, <i>Exp. Cell Resh.</i> , 209:123-132, 1993
	EP	Colbère-Garapin, <i>et al.</i> , "A new dominant hybrid selective marker for higher eukaryotic cells", <i>J. Mol. Biol.</i> 150:1-14, (1981).
	EQ	Collard, <i>et al.</i> , Separation and analysis of human chromosomes by combined velocity sedimentation and flow sorting applying single- and dual-laser flow cytometry, <i>Cytometry</i> , 5:9-19, 1984
	ER	Collins and Newlon, "Chromosomal DNA replication initiates at the same origins in meiosis and mitosis", <i>Mol Cell Biol</i> 14:3524-3534, (1994).
	ES	Conte <i>et al.</i> , Characterization of two extreme variants involving the short arm of chromosome 22: are they identical?, <i>Variant Chromosome</i> 40(3):145-149 (1997).
	ET	Cooke, Non-programmed and engineered chromosome breakage, <i>Cold Spring Harbor Monograph Series</i> 29: 219-245 (1995)
	EU	Cooper and Tyler-Smith, "The putative centromere-forming sequence of ACM8 is a single copy sequence and is not a component of most human centromeres", <i>Hum. Mol. Gen.</i> 1(9):753-754, (1992).
	EV	Couto, <i>et al.</i> , "Inhibition of intracellular <i>histoplasma capsulatum</i> replication by murine macrophages that produce human defensin", <i>Infect. Immun.</i> 62:2375-2378, (1994).
[Signature]	EW	Cram, <i>et al.</i> , "Polyamine buffer for bivariate human flow cytogenetic analysis and sorting", <i>Methods in Cell Biology</i> 33:377-382, (1990).

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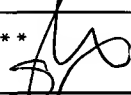
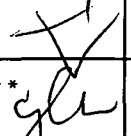
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** 	EX	Cram <i>et al.</i> , "XVII meeting of the International Society for Analytical Cytology, Tutorial IV", <u>Chromosome Analysis and Sorting with Commercial Flow Cytometers</u> (1994)
	EY	Cram, <i>et al.</i> , Univariate analysis of metaphase chromosomes using the hypotonic potassium chloride-propidium iodide protocol, <u>Meth. Cell Biol.</u> , <u>33</u> :369-376, 1990
	EZ	Cross <i>et al.</i> , The structure of subterminal repeated sequence present on many human chromosomes, <u>Nucleic Acids Res.</u> <u>18</u> (22): 6649 - 6657 (1990)
**	FA	Crystal, R.G., Transfer of Genes to Humans: Early Lessons and Obstacles to Success, <u>Science</u> <u>270</u> :404-410 (1995).
	FB	Current state of the art, <i>Chromos Molecular Systems - News Release</i> (May 29, 1996) (available at http://www.chromos.com/contents.html)
	FC	Cuthbert <i>et al.</i> , Construction and characterization of a highly stable human:rodent monochromosomal hybrid panel for genetic complementation and genome mapping studies, <u>Cytogenet Cell Genet</u> <u>71</u> :68-76 (1995).
	FD	Cutler, "Electroporation: Being developed to transform crops", <i>Ag Biotechnology News</i> <u>7</u> :3, (September/October 1990).
	FE	Davidson, <i>et al.</i> , "Improved techniques for the induction of mammalian cell hybridisation by polyethylene glycol", <u>Somatic Cell. Genet.</u> <u>2</u> :165-176, (1976).
	FF	Dean, <i>et al.</i> , "Multiple mutations in highly conserved residues are found in mildly affected cystic fibrosis patients", <u>Cell</u> <u>61</u> :863-870, (1990).
	FG	DePamphilis, "Eukaryotic DNA replication: Anatomy of an origin", <u>Annu. Rev. Biochem.</u> <u>62</u> :29-63, (1993).
	FH	Depinet <i>et al.</i> , Characterization of neo-centromeres in marker chromosomes lacking detectable alpha-satellite DNA, <u>Human Molecular Genetics</u> <u>6</u> (8):1195-1204 (1997).
	FI	Dhar, <i>et al.</i> , "Transfer of Chinese Hamster Chromosome 1 to Mouse Cells and Regional Assignment of 7 Genes: A Combination of Gene Transfer and Microcell Fusion", <u>Somatic Cell and Molecular Genetics</u> , <u>10</u> (6):547-559, (1984).
**	FJ	Dickson <i>et al.</i> , Human ribosomal DNA: conserved sequence elements in a 4.3-kb region downstream from the transcription unit, <u>Gene</u> <u>84</u> :197-200 (1989)
	FK	Dieken, <i>et al.</i> , "Efficient modification of human chromosomal alleles using recombination-proficient chicken/human microcell hybrids", <u>Nature Genet.</u> <u>12</u> :174-182, (1996).
** 	FL	Drohan, Transgenic Animals: "Great and Small," <u>Journal of Cellular Biochemistry</u> <u>49</u> :111-112 (1992).

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sh	FM	Dunckley, <i>et al.</i> , "Retroviral-mediated transfer of a dystrophin minigene into <i>mdx</i> mouse myoblasts in vitro", <i>FEBS Lett.</i> 296:128-34, (1992).
**	FN	Ebert <i>et al.</i> , Transgenic Production of a Variant of Human Tissue-type Plasminogen Activator in Goat Milk: Generation of Transgenic Goats and Analysis of Expression, <i>Bio/Technology</i> 9:835-838 (1991).
	FO	Eissenberg and Elgin, Boundary functions in the control of gene expression, <i>Trends in Genet.</i> , 7(10):335-340, 1991
	FP	Erlich, <i>et al.</i> , "Recent advances in the polymerase chain reaction", <i>Science</i> 252:1643-1651, (1991).
	FQ	Etches, <i>et al.</i> , "Chimeric chickens and their use in manipulation of the chicken genome", <i>Poultry Sci.</i> 72:882-889, (1993).
**	FR	Eyestone, Production and breeding of transgenic cattle using in vitro embryo production technology, <i>Theriogenology</i> 51:509-517 (1999).
**	FS	Fabb <i>et al.</i> , Generation of novel human MHC class II mutant B-cell lines by integrating YAC DNA into a cell line homozygously deleted for the MHC class II region, <i>Human Molecular Genetics</i> 6(8): 1295-1304 (1997).
	FT	Fangman and Brewer, "A question of time: replication origins of eukaryotic chromosomes", <i>Cell</i> 71: 363-366, (1992).
	FU	Farr, <i>et al.</i> , "Generation of a human X-derived minichromosome using telomere-associated chromosome fragmentation", <i>EMBO J.</i> 14:5444-5454, (1995).
	FV	Farr, Mammalian telomeres and chromosome fragmentation, <i>Cell Devtl. Biol.</i> 7: 41-48 (1996)
	FW	Farrel, <i>et al.</i> , "p53 is frequently mutated in Burkitt's lymphoma cell lines", <i>EMBO J.</i> 10:2879-2887, (1991).
	FX	Fátyol, <i>et al.</i> , "Cloning and molecular characterization of a novel chromosome specific centromere sequence of Chinese hamster", <i>Nucl. Acids Res.</i> 22:3728-3736, (1994).
**	FY	Featherstone and Huxley, Extrachromosomal maintenance and amplification of yeast artificial chromosomes, <i>Genomics</i> 17:267-278 (1993)
	FZ	Fechheimer, <i>et al.</i> , "Transfection of mammalian cells with plasmid DNA by scrape loading and sonication loading", <i>Proc. Natl. Acad. Sci. USA</i> 84:8463-8467, (1987).
** sh	GA	Financsek <i>et al.</i> , Human ribosomal RNA gene: Nucleotide sequence of the transcription initiation region and comparison of three mammalian genes, <i>Proc. Natl. Acad. Sci.</i> 79:3092-3096 (1982)

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JH	GB	Ford and Fried, "Large inverted duplications are associated with gene amplification", <i>Cell</i> 45:425-430, (1986).
	GC	Fournier, "A general high-efficiency procedure for production of microcell hybrids", <i>Proc. Natl. Acad. Sci. USA</i> 78:6349-6353, (1981).
	GD	Fowler, <i>et al.</i> , "Donor lymphoid cells of th2 cytokine phenotype reduce lethal graft versus host disease and facilitates fully allogeneic cell transfers in sublethally irradiated mice", <i>Advances in Bone Marrow Purging and Processing: Fourth International Symposium</i> , p. 533-540, (1994).
	GE	Frasier, <i>et al.</i> , "Efficient incorporation of transfected blastodermal cells into chimeric chicken embryos", <i>Int. J. Dev. Biol.</i> 37:381-385, (1993).
	GF	French, <i>et al.</i> , "Construction of a retroviral vector incorporating mouse VL30 retrotransposon-derived, transcriptional regulatory sequences", <i>Anal. Biochem.</i> 228:354-355, (1995).
	GG	Frohman and Martin, "Cut, paste, and save: new Approaches to altering specific genes in mice", <i>Cell</i> 56:145-147, (1989).
	GH	Fromm, <i>et al.</i> , "Expression of genes transferred into monocot and dicot plant cells by electroporation", <i>Proc. Natl. Acad. Sci. USA</i> 82:5824-5828, (1985).
	GI	Fu <i>et al.</i> , Molecular cytogenetic study of an extra small chromosome, (CHINA), <i>Medline Abstract:93103732</i> 19(4):294-297 (1992).
	GJ	Garside <i>et al.</i> , A method for karyotyping mouse blastocyst embryos developing from in vivo and in vitro fertilized eggs, <i>Experientia</i> 41:1183-1184 (1985).
	GK	Gaub, <i>et al.</i> , "The chicken ovalbumin promoter is under negative control which is relieved by steroid hormones", <i>The EMBO Journal</i> , 6:(8)2313-2320, (1987).
	GL	Gillespie, <i>et al.</i> , "Tissue-specific expression of human CD4 in transgenic mice", <i>Mol. Cell. Biol.</i> 13:2952-2958, (1993).
	GM	Gluzman, "SV40-transformed simian cells support the replication of early SV40 mutants", <i>Cell</i> 23:175-182, (1981).
	GN	Gogel, <i>et al.</i> , Mapping of replication initiation sites in the mouse ribosomal gene cluster, <i>Chromosoma</i> , 104:511-518, 1996
**	GO	Gonzales and Schmickel, The human 18S ribosomal RNA gene: Evolution and stability, <i>Am. J. Hum. Genet.</i> 38:419-427 (1986)
** JH	GP	Gonzalez <i>et al.</i> , Variation among human 28S ribosomal RNA genes, <i>Proc. Natl. Acad. Sci.</i> 82:7666-7670 (1985)

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zh	GQ	Gonzalez and Sylvester, Complete sequence of the 43-kb human ribosomal DNA repeat: Analysis of the intergenic space, <u>Genomics</u> , 27:320-328, 1985
	GR	Goodfellow, <i>et al.</i> , "Techniques for mammalian genome transfer", in <i>Genome Analysis a Practical Approach</i> , K.E. Davies, ed., IRL Press, Oxford, Washington DC. pp.1-17, (1989).
**	GS	Gordon <i>et al.</i> , Production of Human Tissue Plasminogen Activator in Transgenic Mouse Milk, <u>Bio/Technology</u> 5:1183-1187 (1987).
**	GT	Gordon <i>et al.</i> , Genetic transformation of mouse embryos by microinjection of purified DNA, <u>Proc. Natl. Acad. Sci. USA</u> 77(12):7380-7384 (1980).
	GU	Gout, <i>et al.</i> , Prolactin-stimulated growth of cell cultures established from malignant Nb rat lymphomas, <u>Cancer Res.</u> , 40:2433-2436, 1980
	GV	Graham and van der Eb, "A new technique for the assay of infectivity of human adenovirus 5 DNA", <u>Virology</u> 52:456-457, (1973).
	GW	Gravholt and Friedrich, Molecular cytogenetic study of supernumerary marker chromosomes in an unselected group of children, <u>Am. J. Med. Gen.</u> , 56:106-111, 1995
**	GX	Gray <i>et al.</i> , Chromosome measurement and sorting by flow systems, <u>Proc. Nat. Acad. Sci.</u> 72:1231-1234 (1975)
	GY	Green, <i>et al.</i> , "Chromosomal region of the cystic fibrosis gene in yeast artificial chromosomes: A model for human genome mapping", <u>Science</u> 250:94-98, (1990).
	GZ	Grierson, <i>et al.</i> <u>Plant Molecular Biology</u> , 2d Ed., Blackie, London, Ch. 7-9, (1988).
	HA	Gritz, <i>et al.</i> , "Plasmid-encoded hygromycin B resistance: the sequence of hygromycin B phosphotransferase gene and its expression in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> ", <u>Gene</u> 25:179-188, (1983).
	HB	Gunning, <i>et al.</i> , "A human β -actin expression vector system directs high-level accumulation of antisense transcripts", <u>Proc. Natl. Acad. Sci. USA</u> 84:4831-4835, (1987).
	HC	Haaf <i>et al.</i> , Integration of Human α -Satellite DNA into Simian Chromosomes: Centromere Protein Binding and Disruption of Normal Chromosome Segregation, <u>Cell</u> 70:681-696 (1992).
	HD	Haas and Dowding, Aminoglycoside-modifying enzymes, <u>Meth. Enzymol.</u> , 43:611-628, 1975
h	HE	Haase, <i>et al.</i> , "Transcription inhibits the replication of autonomously replicating plasmids in human cells", <u>Mol. Cell. Biol.</u> 14:2516-2524, (1994).

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	HF	Hadlaczky and Szalay, "Mammalian artificial chromosomes: Introduction of novel genes into mammalian artificial chromosomes", Abstract from International Symposium on <i>Gene Therapy of Cancer, AIDS and Genetic Disorders</i> , Trieste (Italy) (April 10-13, 1996) (available at http://www.chromos.com/contents.html)
	HG	Hadlaczky, "Structure of metaphase chromosomes of plants", <i>Internatl. Rev. Cytol.</i> 94:57-76, (1985).
	HH	Hadlaczky, <i>et al.</i> , "Structure of isolated protein-depleted chromosomes of plants", <i>Chromosoma</i> 86:643-659, (1982).
	HI	Hadlaczky, <i>et al.</i> , "Protein depleted chromosomes", <i>Chromosoma</i> 81:537-555, (1981).
	HJ	Hadlaczky, <i>et al.</i> , "Centromere formation in mouse cells cotransformed with human DNA and a dominant marker gene", <i>Proc. Natl. Acad. Sci. USA</i> 88:8106-8110, (1991).
	HK	Hadlaczky, <i>et al.</i> , "Direct evidence for the non-random localization of mammalian chromosomes in the interphase nucleus", <i>Exp. Cell Res.</i> 167:1-15, (1986).
	HL	Hadlaczky, <i>et al.</i> , "Centromere proteins", <i>Chromosoma</i> 97:282-288, (1989).
	HM	Hadlaczky and Szalay, "Mammalian artificial chromosomes: Potential vectors for gene therapy", Abstract from International Symposium on <i>Gene Therapy of Cancer, AIDS and Genetic Disorders</i> , Trieste (Italy) (April 10-13, 1996) (available at http://www.chromos.com/contents.html)
	HN	Hall, <i>et al.</i> , "Expression and regulation of <i>Escherichia coli lacZ</i> gene fusions in mammalian cells", <i>J. Mol. Appl. Gen.</i> 2:101-109, (1983).
	HO	Handeli, <i>et al.</i> , "Mapping replication units in animal cells", <i>Cell</i> 57:909-920, (1989).
	HP	Hanna, <i>et al.</i> , "Specific expression of the human CD4 gene in mature CD4 ⁺ CD8 ⁻ and immature CD4 ⁺ CD8 ⁺ T cells and in macrophages of transgenic mice", <i>Mol. Cell. Biol.</i> 14:1084-1094, (1994).
	HQ	Harper, <i>et al.</i> , "Localization of single copy DNA sequences on G-banded human chromosomes by in situ hybridization", <i>Chromosoma</i> 83:431-439, (1981).
	HR	Harrington, <i>et al.</i> , Formation of <i>de novo</i> centromeres and construction of first-generation human artificial microchromosomes, <i>Nature Genetics</i> , 15:345-355, 1997
	** HS	Haskell <i>et al.</i> , Efficient Production of Transgenic Cattle by Retroviral Infection of Early Embryos, <i>Molecular Reproduction and Development</i> 40:386-390 (1995).
	HT	Hassan, <i>et al.</i> , "Replication and transcription sites are colocalized in human cells", <i>J. Cell. Sci.</i> 107:425-434, (1994).

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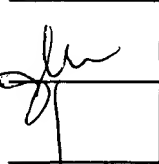

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	HU	Heller, <i>et al.</i> , Mini-chromosomes derived from the human Y chromosome by telomere directed chromosome breakage, <u>Proc. Natl. Acad. Sci. USA</u> , <u>93</u> :7125-7130, 1996
	HV	Henikoff <i>et al.</i> , Position-effect variegation after 60 years, <u>Trends in Genetics</u> <u>6</u> : 422-426 (1990).
**	HW	Hernandez <i>et al.</i> , Conserved features in the mode of replication of eukaryotic ribosomal RNA genes, <u>EMBO J.</u> <u>12</u> (4):1475-1485 (1993)
	HX	Higgins <i>et al.</i> , Organization of a repetitive human 1.8 kb KpnI sequence localized in the heterochromatin of chromosome 15, <u>Chromosoma</u> <u>93</u> :77-86 (1985).
**	HY	Hill <i>et al.</i> , Production of Transgenic Cattle by Pronuclear Injection, <u>Theriogenology</u> <u>37</u> :222 (1992).
	HZ	Hilwig and Gropp, "Decondensation of constitutive heterochromatin in L cell chromosomes by a benzimidazole compound ("33258 Hoechst")", <u>Exp Cell Res</u> <u>81</u> :474-477, (1973).
**	IA	Hogan, <i>et al.</i> , <u>Manipulating the Mouse Embryo: A Laboratory Manual</u> , Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pages 127 and 429 (1994).
	IB	Hogan, <i>et al.</i> , <u>Manipulating the Mouse Embryo: A Laboratory Manual</u> , Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pages 253-289 see, especially pages 255-264 and Appendix 3, (1994).
	IC	Hollo, <i>et al.</i> , "Evidence for a megareplicon covering megabases of centromere segments", <u>Chromosome Research</u> <u>4</u> :240-247 (1996)
	ID	Holmen, <i>et al.</i> , "Efficient Lipid-mediated transfection of DNA into Primary Rat Hepatocytes", <u>In Vitro Cell, Dev. Biol.</u> <u>30</u> :347-351, (1995).
	IE	Holmquist and Comings, "Sister chromatid exchange and chromosome organisation based on a bromodeoxyuridine Giemsa-C-banding technique (TC-banding)", <u>Chromosoma</u> <u>52</u> :245-259, (1975).
**	IF	Houdebine, Production of pharmaceutical proteins from transgenic animals, <u>Journal of Biotechnology</u> <u>34</u> :269-287 (1994).
	IG	Hsu and Markvong, "Chromosomes and DNA in <i>Mus</i> : Terminal DNA synthetic sequences in three species", <u>Chromosoma</u> <u>51</u> :311-322, (1975).
	IH	Huberman and Riggs, "On the mechanism of DNA replication in mammalian chromosomes", <u>J Mol Biol</u> <u>32</u> :327-341, (1968).
	II	Huberman, <i>et al.</i> , "The <i>in vivo</i> replication origin of the yeast 2 μ m plasmid", <u>Cell</u> <u>51</u> :473-481, (1987).

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	KS	Mendelsohn, <i>et al.</i> , Separation of isolated chinese hamster metaphase chromosomes into three size-groups, <i>J. Mol. Biol.</i> , 32:101-112, 1968
	KT	Meyne <i>et al.</i> , Chromosome localization and orientation of the simple sequence repeat of human satellite I DNA, <i>Chromosoma</i> 103:99-103 (1994).
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	MX	Sanes, <i>et al.</i> , "Use of a recombinant retrovirus to study post-implantation cell lineage in mouse embryos", <i>EMBO J.</i> 5(12):3133-3142, (1986).
g	MY	Sanford, <i>et al.</i> , "General Protocol for Microcell-Mediated Chromosome Transfer", <i>Somatic Cell and Molecular Genetics</i> , 13:(3)279-284, (1987).

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 24601-402E	SERIAL NO. 09/724,726
	APPLICANT Hadlaczky, <i>et al.</i>	
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g	MZ	Sang, <i>et al.</i> , "Transgenic chickens - methods and potential application", <i>TIBTECH</i> 12:415-420.
	NA	Sanger, <i>et al.</i> , "Cloning in single-stranded bacteriophage as an aid to rapid DNA sequencing", <i>J. Mol. Biol.</i> 143:161-178, (1980).
	NB	Sart <i>et al.</i> , A functional neo-centromere formed through activation of a latent human centromere and consisting of non-alpha-satellite DNA, <i>Nature Genetic</i> 16:144-152 (1997).
	NC	Saxon, <i>et al.</i> , "Selective transfer of individual human chromosomes to recipient cells", <i>Mol. Cell. Biol.</i> 1:140-146, (1985).
	ND	Schedl, <i>et al.</i> , "A method for the generation of YAC transgenic mice by pronuclear microinjection", <i>Nuc. Acids Res.</i> 21:4783-4787, (1993).
	NE	Scientists report a major step in realizing the commercial potential of engineered artificial chromosomes in significant life sciences sectors, including gene therapy, <i>Chromos Molecular Systems - News Release</i> (May 29, 1996) (available at http://www.chromos.com/contents.html)
**	NF	Seamark, Progress and emerging problems in livestock transgenesis: a summary perspective, <i>Reprod. Fertil. Dev.</i> , 6:653-657 (1994)
	NG	Seamark, Progress and Emerging Problems in Livestock Transgenesis: a Summary Perspective, <i>Reprod. Fertil. Dev.</i> 6:653-657 (1994).
	NH	Selig, <i>et al.</i> , "Regulation of mouse satellite DNA replication time", <i>EMBO J.</i> 7:419-426, (1988).
	NI	Sher, <i>et al.</i> , "Role of T-Cell derived cytokines in the downregulation of immune responses in parasitic and retroviral infection", <i>Immunological Reviews</i> (127)183-204, (?)
	NJ	Shizuya, <i>et al.</i> , Cloning and stable maintenance of 300-kilobase-pair fragments of human DNA in <i>Escherichia coli</i> using an F-factor-based vector, <i>Proc. Natl. Acad. Sci. USA</i> , 89:8794-8797, 1992
	NK	Shwarchuk, <i>et al.</i> , Substructure in the radiation survival response at low dose: asynchronous and partially synchronized V79-WNRE cells, <i>Int. J. Radiat. Biol.</i> , 64(5):601-612, 1993
	NL	Sillar and Young, A new method for the preparation of metaphase chromosomes for flow analysis, <i>J. Histo. Cytoch.</i> , 29:74-78, 1981
** S	NM	Simons <i>et al.</i> , Alteration of the quality of milk by expression of sheep β -lactoglobulin in transgenic mice, <i>Nature</i> 328:530-532 (1987).

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	APPLICANT Hadlaczky, <i>et al.</i>	
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**	NN	Simons <i>et al.</i> , Gene Transfer into Sheep, <u>Bio/Technology</u> 6:179-183 (1988).
	NO	Smith, <i>et al.</i> , "Distinctive chromosomal structures are formed very early in the amplification of CAD genes in Syrian hamster cells", <u>Cell</u> 63:1219-1227, (1990).
	NP	Smith, <i>et al.</i> , "Amplification of large artificial chromosomes", <u>Proc. Natl. Acad. Sci. USA</u> , 87:8242-8246, (1990).
**	NQ	Smith and Rubin, Functional screening and complex traits: human 21q22.2 sequences affecting learning in mice, <u>Hum. Mol. Genet.</u> 6(10):1729-1733 (1997)
	NR	Solus, <i>et al.</i> , "Characterization of single-copy probe from vicinity of centromere of human chromosome 1", <u>Somatic Cell Mol. Genet.</u> 14:381-391, (1988).
	NS	Stoeher, <i>et al.</i> , A reliable preparation of mono-dispersed chromosome suspensions for flow cytometry, <u>Histochemistry</u> , 74:57-61, 1982
	NT	Strauss, "Transfection of Mammalian Cells via Lipofection", <u>Meth Biol</u> 54:307-327, (1996).
	NU	Strojek <i>et al.</i> The use of transgenic animal techniques for livestock improvement, <u>Genetic Engineering: Principles and Methods</u> 10:221-246, (1988).
	NV	Stubblefield and Wray, Isolation of specific human metaphase chromosomes, <u>Bioch. and Biophys. Res. Commun.</u> , 83(4):1404-1414, 1978
**	NW	Stubblefield and Pershouse, Direct formation of microcells from mitotic cells for use in chromosome transfer, <u>Somatic Cell & Molec. Genet.</u> 18:485-491 (1992)
	NX	Sugden, <i>et al.</i> , "A vector that replicates as a plasmid and can be efficiently selected in B-lymphoblast transformed by Epstein-Barr virus", <u>Mol. Cell. Biol.</u> 5:410-413, (1985).
	NY	Sumner, "Scanning electron microscopy of mammalian chromosomes from prophase to telophase", <u>Chromosoma</u> 100:410-418, (1991).
	NZ	Sumner, "A simple technique for demonstrating centromeric heterochromatin", <u>Cell Res.</u> 75:304-306, (1972).
	OA	Sun <i>et al.</i> , Human artificial episomal chromosomes for cloning large DNA fragments in human cells, <u>Nature Genetics</u> 8:33-41 (1994).
	OB	Szybalska, <i>et al.</i> , "DNA-Mediated heritable transformation of biochemical trait", <u>Proc. N.A.S.</u> 48:2026-2034, (1962).
	OC	Szybalsky, <i>et al.</i> , "Genetic studies with human cell lines", <u>Natl. Cancer Inst. Monogr.</u> 7:75-89, (1982).

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	APPLICANT Hadlaczky, <i>et al.</i>	
	FILING DATE November 28, 2000	GROUP Unassigned

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efh	OD	Takeda <i>et al.</i> , Expression of SV40- <i>lacZ</i> Gene in Mouse Preimplantation Embryos After Pronuclear Microinjection, <i>Molecular Reproduction and Development</i> 30:90-94 (1991).
	OE	Tamura, <i>et al.</i> , "Microinjection of DNA into early embryo of <i>Bombyx mori</i> ", <i>Bio Ind.</i> 8:26-31, (1991), (Chemical Abstracts # 114(21)200502z)
	OF	Taylor <i>et al.</i> , Analysis of extrachromosomal structures containing human centromeric alphoid satellite DNA sequences in mouse cells, <i>Chromosoma</i> 105: 70-81 (1996)
	OG	Teifel, <i>et al.</i> , "New Lipid Mixture for Efficient Lipid-Mediated Transfection of BHK Cells", <i>Biotechniques</i> 19:79-82, (1995).
**	OH	Telenius <i>et al.</i> , Chromatid contamination can impair the purity of flow-sorted metaphase chromosomes, <i>Cytometry</i> 14:97-101 (1993)
**	OI	Telenius <i>et al.</i> , Stability of a functional murine satellite DNA-based artificial chromosome across mammalian species, <i>Chromosome Research</i> 7: 3-7 (1999).
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	OK	Toledo, <i>et al.</i> , "Co-amplified markers alternate in megabase long chromosomal inverted repeats and cluster independently in interphase nuclei at early steps of mammalian gene amplification", <i>EMBO J.</i> 11:2665-2673, (1992).
	OL	Tomizuka <i>et al.</i> , Functional expression and germline transmission of a human chromosome fragment in chimaeric mice, <i>Nature Genetics</i> 16:133-143 (1997)
	OM	Tonghua, <i>et al.</i> , "Effects of antisense epidermal growth factor and its receptor retroviral expression vectors on cell growth of human pancreatic carcinoma cell line", <i>Chin. Med. J. (Beijing, Engl. Ed.)</i> 108:653-659, (1995).
	ON	Tora, <i>et al.</i> , "Cell-specific activity of a GGTC A half-palindromic oestrogen-responsive element in the chicken ovalbumin gene promoter", <i>The EMBO Journal</i> 7:(12)3771-3778, (1988).
	OO	Torczynski <i>et al.</i> , Cloning and sequencing of a human 18S ribosomal RNA gene, <i>DNA</i> 4 (4): 283-291 (1985)
**	OP	Traver, <i>et al.</i> , Rapid screening of a human genomic library in yeast artificial chromosomes for single-copy sequences, <i>Proc. Natl. Acad. Sci. USA</i> 86:5898-5902, 1989
	OQ	Tyler-Smith <i>et al.</i> , Mammalian chromosome structure, <i>Curr. Opin. Genet. Devt.</i> 3: 390-397 (1993)
g	OR	Uchimiya, <i>et al.</i> , "Transgenic plants", <i>J. Biotechnol.</i> 12:1-20, (1989).

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sh	OS	Van den Engh, <i>et al.</i> , Improved resolution of flow cytometric measurements of Hoechst- and Chromomycin-A3-stained human chromosomes after addition of citrate and sulfite, <u>Cytometry</u> , 9:266-270, 1988
	OT	Van Dilla, <i>et al.</i> , Human chromosome-specific DNA libraries: Construction and availability, <u>Bio/Technology</u> , 4:537-552, 1986
	OU	Van den Engh, <i>et al.</i> , Preparation of chromosomes suspensions for flow cytometry, <u>Cytometry</u> , 5:108-117, 1984
	OV	Van den Engh, <i>et al.</i> , Preparation and bivariate analysis of suspensions of human chromosomes, <u>Cytometry</u> , 6:92-100, 1985
**	OW	Velandar <i>et al.</i> , High-level expression of a heterologous protein in the milk of transgenic swine using the cDNA encoding human protein C, <u>Proc. Natl. Acad. Sci. USA</u> 89:12003-12007 (1992).
**	OX	Verma, I.M. and N. Somia, Gene Therapy- promises, problems and prospects, <u>Nature</u> 389:239-42 (1997).
	OY	Vig and Richards, "Formation of primary constriction and heterochromatin in mouse does not require minor satellite DNA", <u>Exp. Cell Res.</u> 201:292-298, (1992).
**	OZ	Vile, R.G., Abstract of: Cancer Gene Therapy: Hard Lessons and New Courses, <u>Gene Therapy</u> 7(1):2-8 (2000)
	PA	Vissel <i>et al.</i> , A satellite III sequence shared by human chromosomes 13, 14, and 21 that is contiguous with α satellite DNA, <u>Cytogenet Cell Genet</u> 61:81-86 (1992).
**	PB	Vos JM, The Simplicity of complex MACs, <u>Nature Biotechnology</u> 15:1257-1259 (1997)
**	PC	Wall <i>et al.</i> , Transgenic Dairy Cattle: Genetic Engineering on a Large Scale, <u>J. Dairy Sci.</u> 80(9):2213-2224 (1997).
**	PD	Wall <i>et al.</i> , High-level synthesis of a heterologous milk protein in the mammary glands of transgenic swine, <u>Proc. Natl. Acad. Sci. USA</u> 88:1696-1700 (1991).
**	PE	Wall <i>et al.</i> , Making Transgenic Livestock: Genetic Engineering on a Large Scale, <u>Journal of Cellular Biochemistry</u> 49:113-120 (1992).
**	PF	Wall, Transgenic livestock: Progress and prospects for the future, <u>Theriogenology</u> , 45:57-68 (1996)
sh	PG	Wang and Fedoroff, "Banding of human chromosomes treated with trypsin", <u>Nature</u> 235:52-54, (1972).

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* <i>gh</i>	PH	Warburton <i>et al.</i> , Hamster chromosomes containing amplified human α -satellite DNA show delayed sister chromatid separation in the absence of de novo kinetochore formation, <i>Chromosoma</i> 106:149-159 (1997).
*	PI	Warburton, P.E., Making CENS of Mammalian Artificial Chromosomes, <i>Molecular Genetics and Metabolism</i> 68:152-160 (1999).
	PJ	Waring, <i>et al.</i> , "Nucleotide sequence repetition: A rapidly reassociating fraction of mouse DNA", <i>Science</i> 154:791-794, (1966).
	PK	Waye <i>et al.</i> , Human β satellite DNA: Genomic organization and sequence definition of a class of highly repetitive tandem DNA, <i>Proc. Natl. Acad. Sci.</i> 86:6250-6254 (1989).
	PL	Weinberg, "Tumor suppressor genes", <i>Science</i> 254:1138-1146, (1991).
**	PM	Wells <i>et al.</i> , Production of Cloned Lambs from an Established Embryonic Cell Line: A Comparison between In Vivo- and In Vitro-Matured Cytoplasts, <i>Biology of Reproduction</i> 57: 385-93 (1997).
	PN	White, <i>et al.</i> , "A frame-shift mutation in the cystic fibrosis gene", <i>Nature</i> 344:665-667, (1990).
	PO	Wigler, <i>et al.</i> , "DNA-mediated transfer of the adenine phosphoribosyltransferase locus into mammalian cells", <i>Proc. Natl. Acad. Sci. USA</i> 76:1373-1376, (1979).
	PP	Willard, Chromosome manipulation: a systematic approach toward understanding human chromosome structure and function, <i>Proc. Natl. Acad. Sci. USA</i> 93: 6847-6850 (1996)
	PQ	Willard and Waye, "Hierarchical order in chromosome specific human alpha satellite DNA", <i>Trends Genet.</i> 3:192-198, (1987).
	PR	Williams and Blattner, "Construction and characterization of the hybrid bacteriophage lambda charon vectors for DNA cloning", <i>J. Virol.</i> 29:555-575, (1979).
	PS	Wilmut, <i>et al.</i> , Viable offspring derived from fetal and adult mammalian cells, <i>Nature</i> , 385:810-813, 1997
	PT	Wong, <i>et al.</i> , "Sequence organisation and cytological localization of the minor satellite of mouse", <i>Nucl. Acids Res.</i> 16:11645-11661, (1988).
	PU	Worton <i>et al.</i> , Human Ribosomal RNA Genes: Orientation of the Tandem Array and Conservation of the 5' End, <i>Science</i> 239:64-68 (1988).
** <i>gh</i>	PV	Wright <i>et al.</i> , High level expression of active human alpha-1-antitrypsin in the milk of transgenic sheep, <i>Bio/Technology</i> 9:830-834 (1991).

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	APPLICANT Hadlaczky, <i>et al.</i>	
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

8	PW	Yamada, <i>et al.</i> , "Multiple chromosomes carrying tumor suppressor activity for a uterine endometrial carcinoma cell line identified by microcell-mediated chromosome transfer", <i>Oncogene</i> 5:1141-1147, (1990).
	PX	Yates, <i>et al.</i> , "A <i>cis</i> -acting element from the Epstein-Barr viral genome that permits stable replication of recombinant plasmids in latently infected cells", <i>Proc. Natl. Acad. Sci. USA</i> 81:3806-3810, (1984).
	PY	Yates, <i>et al.</i> , "Stable replication of plasmids derived from Epstein-Barr virus in various mammalian cells", <i>Nature</i> 313:812-815, (1985).
	PZ	Yeung, <i>et al.</i> , "Human CD4-major histocompatibility complex class II (Dqw6) transgenic mice in an endogenous CD4/CD8-deficient background: reconstitution of phenotype and humano-restricted function," <i>J. Exp. Med.</i> 180:1911-1920, (1994).
	QA	Yoon, <i>et al.</i> , Mapping of replication initiation sites in human ribosomal DNA by Nascent-Strand abundance analysis, <i>Mol. Cell. Bio.</i> , p. 2482-2489, May 1995
	QB	Yurov, "Identification and characterization of two distinct polymorphic α -satellite DNA sequences from centromeric regions of the chromosomes 13 and 21 (A2299)", <i>Cytogenet. Cell Genet.</i> 51:1114, (1989).
	QC	Yurov, "Collection of α -satellite DNA probes: Highly polymorphic markers for centromeric regions of all human chromosomes (A2298)", <i>Cytogenet. Cell Genet.</i> 51:1114, (1989).
	QD	Zang, <i>et al.</i> , "Production of recombinant proteins in Chinese hamster ovary cells using a protein-free cell culture medium", <i>Bio/Technology</i> 13:389-392, (1995).
	QE	Zemskova and Escher, IAP DNA sequences and mouse chromosome instability, Loma Linda University APC Conference, March, 1997
5	QF	Zhang, <i>et al.</i> , "T-Cell cytokine responses in human infection with Mycobacterium tuberculosis", <i>Infection and Immunity</i> , p. 3231-3234, (1995).

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U.S. PATENT DOCUMENTS

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September 7, 2001

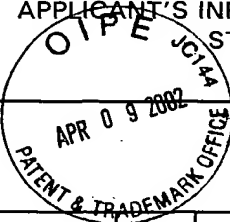
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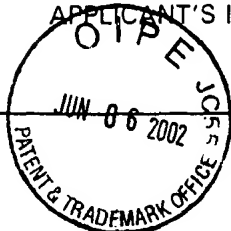
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April 5, 2002

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gh	A	4	7	3	6	8	6	6	04/12/88	Leder et al.	800	1	06/22/84
	B	4	8	0	1	5	4	0	01/31/89	Hiatt et al.	435	172.3	01/02/87
	C	5	7	2	1	3	6	7	02/24/98	Kay et al.	800	2	06/05/95

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	G	0	2	7	9	5	8	2	08/24/88	A2				
	H	0	8	3	8	5	2	6	04/29/98	EPO				
	I	8	2	0	4	4	4	3	12/23/82	PCT				
	J	8	8	0	1	6	4	8	03/10/88	PCT				
	K	8	8	0	0	2	3	9	01/14/88	PCT				
	L	8	9	0	9	2	1	9	10/05/89	PCT				
	M	9	1	0	5	0	4	4	04/18/91	PCT				
	N	9	2	0	7	0	8	0	04/30/92	PCT				
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Title: **ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES**

FORM-PTO-1449 (Modified)

ATTY. DOCKET NO.
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S	DIALOG Abstract 007389041, citing: EP 0254 315
T	DIALOG Abstract 007268905, citing: EP 0240 373 A1
U	Green <i>et al.</i> , "Systematic screening of yeast artificial-chromosome libraries by use of the polymerase chain reaction", <i>Proc. Natl. Acad. Sci. USA</i> , <u>87</u> :1213-1217 (1990)
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W	Ioannou, <i>et al.</i> , "A new bacteriophage P1-derived vector for the propagation of large human DNA fragments", <i>Nature Genetics</i> , <u>6</u> :84-89 (1994)
X	McCormick <i>et al.</i> , Construction of human chromosome 21-specific yeast artificial chromosomes, <i>Proc. Natl. Acad. Sci. USA</i> 86:9991-9995 (1989)
Y	Miller <i>et al.</i> , "High-efficiency ligation and recombination of DNA fragments by vertebrate cells", <i>Science</i> , <u>220</u> :606-609 (1983)
Z	Pluta <i>et al.</i> , "Structure of the human centromere at metaphase", <i>TIBS</i> , <u>15</u> :181-185 (1990)
AA	Robertson <i>et al.</i> , "Germ-line transmission of genes introduced into cultured pluripotent cells by retroviral vector", <i>Nature</i> , <u>323</u> :445-448 (1986)
AB	Roth <i>et al.</i> , "Illegitimate Recombination in Mammalian Cells", Chapter 21 621-653
AC	Schneider <i>et al.</i> , "Procedure for production of hybrid genes and proteins and its use in assessing significance of amino acid differences in homologous tryptophan synthetase α polypeptides", <i>Proc. Natl. Acad. Sci. USA</i> , <u>78</u> (4):2169-2173 (1981)
AD	Sternberg, "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs", <i>Proc. Natl. Acad. Sci. USA</i> , <u>87</u> :103-107 (1990)
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Title: **ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES**

FORM PTO-1449 (Mod. 10-01-00)

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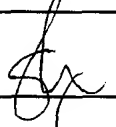

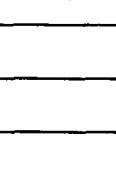
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	4	6	5	6	1	3	4	04/07/87	Ringold	463	91	04/12/85

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	B	Ascenzioni <i>et al.</i> , "Mammalian artificial chromosomes-vectors for somatic gene therapy", <i>Cancer Lett.</i> , 118:135-142 (1997)
	C	Hadlaczkzy, "Satellite DNA-based artificial chromosomes for use in gene therapy", <i>Curr. Opin. Mol. Ther.</i> , 3:125-132 (2001)
	D	Saffery and Choo, "Strategies for engineering human chromosomes with therapeutic potential", <i>J. Gene Med.</i> , 4:5-13 (2002)

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	A	Certified English translation of the Chinese article: Fu <i>et al.</i> "A Molecular Cytogenetic Study of an Extra Small Chromosome", <i>Acta Genetica Sinica</i> 19(4): 294-297 (1992)
	B	Fu <i>et al.</i> , Molecular cytogenetic study of an extra small chromosome, (CHINA), <i>Acta Genetica Sinica</i> 19(4):294-297 (1992).

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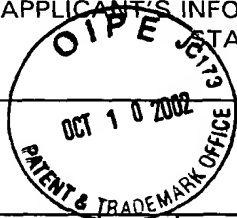
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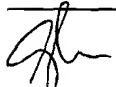
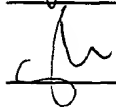
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